

Solutia Inc.

W.G. Krummrich Plant 500 Monsanto Avenue Sanget, Illinois 62206-1198 Tel 618-271-5835

January 28, 2003

Illinois Environmental Protection Agency
Permit Section, Division of Water Pollution Control
P.O. Box 19276
Springfield, IL 62794-9276

Re: Application for Permit or Construction Approval Sauget Sites Project – Area 2
Groundwater Migration Control System (GMCS)

Dear Sir or Madam:

Attached is an Application for Permit or Construction Approval for placement of a temporary effluent pipeline running from the vicinity of a closed landfill in Sauget, Illinois to the discharge point at the Sauget Physical/Chemical (P-Chem) Plant. Per an agreement with the United States Environmental Protection Agency (USEPA), Solutia will be implementing a Groundwater Migration Control System (GMCS) at the site. As part of the remedy, three extraction wells will be placed at the site to recover groundwater for treatment. In accordance with the project schedule, one of the extraction wells has been installed and will be utilized for the pilot test.

The temporary pipeline is required to convey treated groundwater produced from a Treatability Pilot Test that will be performed to provide information needed for the design of a back-up treatment system for the GMCS. The test system will consist of a dual module skid-mounted unit with two Granular Activated Carbon (GAC) columns in a lead-lag configuration. During the pilot test, the system will be operated until organic breakthrough occurs in the first of the two GAC columns. The pilot test will discharge a maximum of 300 gpm for a period no longer than 30 days. All water pumped to the Sauget P-Chem Plant will pass through GAC treatment at Site R.

In addition, a Schedule J (Industrial Treatment Works Construction or Pretreatment Works) Form and a Schedule N (Waste Characteristics) Form are attached. These are required for the temporary test system.

Due to the accelerated schedule for the GMCS, we would appreciate your early review of the attached permit application.

If you have any questions, please contact me at (618) 482-6340.

Sincerely,

Richard S. Williams, Ph.D., P.E.

Project Manager Sauget Sites Project

cc: Sandra Bron – IEPA
Nabil S. Fayoumi – USEPA
Steven D. Smith - Solutia
Bob Cheever – Solutia
Linda Tape – Husch & Eppenberger
George R. Schillinger – American Bottoms
Mark R. Sandfort – Golder Associates

(Page 1 of 2)

Illinois Environmental Protection Agency Permit Section, Division of Water Pollution Control P. O. Box 19276 Springfield, Illinois, 62794-9276

Springfield, Illinois 62794-9276 Application for Permit or Construction Approval

WP	C-	PS-	•
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1.	Name and Location: GMCS Temporary Discharge	Sauget, IL	
	Name of project: Groundwater Migration Control	System Temporary Convey	ance Discharge
	Municipality or Township: Sauget	County: St. C1	air
2.	Brief Description of Project: Groundwater extraction	, treatment and discharg	e to
	American Bottoms POTW for treatability	study.	
3.	Private Sewer Connection/Extension A/B Spray Irrigation H Sewer Extension Construct Only C Septic Tanks Sewage Treatment Works D Industrial Treatment or Pretreatment J X Excess Flow Treatment E Waste Characteristics N X Lift Station/Force Main F Erosion Control P Sludge Disposal G Trust Disclosure T Plans: Title Number of Pages: Description Number of Books/Pages: Description Only of Pages Number of Books/Pages Description Only of Pages Number of Books/Pages Description Only of Pages Number of Books/Pages Description Only of Pages Only of Pages Description Only of Pages Des		
Pr	spaces.		
	Private Sewer Connection/Extension A/B		
		Septic Tanks	········!-
	_	Industrial Treatment or Pretreatment Waste Characteristics	ent J — X
		Erosion Control	P — — —
	Sludge Disposal		
	Plans: Title	Number of Pages: _	<u> </u>
	Specifications: Title	Number of Books/P	ages:
	Other Documents (Please Specify)GMCS_Temporary_Tre	atment and Conveyance Sy	stem narrative
4.		4	
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		ber 7.1.1 must be signed by a beneficiary.	. trustee or trust officer.
5.			,
•			
	B. Authorization to Construction (See Instructions) NPDES (Parmit No. 11.00	Issue Date
	C. Construct Only Permit (Does Not Include Operations)	-ermit No. 1200	issue Date
	X D. Operate Only Permit (Does Not Include Construction)		4
_			
6.	Certifications and Approval:		
	6.1 Certificate by Design Engineer (When required; refer to instru I hereby certify that I am familiar with the information contained in this ap	•	s indicated about a blottethat to the
	best of my knowledge and belief such information is true, complete and		
	Specifications or local specifications on file with this Agency) as descri		
	Engineer Mark R. Sandfort	062-052506	STATE OF STA
	Name	Registration Number	SANDFORT I
	Firm: Golder Associates Inc.		062.052506
	Address: 1630 Heritage Landing, Suite 103		TOP TOP IN
	St. Charles, MO 63303		6-936-1554
		Phone Number: 63	6-936-1554
	Signature X		

7. Certifications and Approvals for Permits:

7.1 Certificate by Applicant(s)

I/We hereby certify that I/we have read and thoroughly understand the conditions and requirements of this Application, and am/are authorized to sign this application in accordance with the Rules and Regulations of the Illinois Pollution Control Board. I/We hereby agree to conform with the Standard Conditions and with any other Special Conditions made part of this Permit.

	Street 50	00 Monsanto A	ve.	City_Sa	uget State I	L
	Zip Code		1		age o.a.o. <u>r</u>	
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Signature X	for,	K gh. 2	\	 		
Drinted Nan	54111	2. 54	4	Phone Number 3/9	. 674-46	60
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Title	adus Re	mediation	Mant	Organization	5 <i>H</i>	
		rmit to Own and Ope	•			
	Solutia,	Inc.		· · · · · · · · · · · · · · · · · · ·	·	
Street	500 Mons	anto Avenue	, ,	City_Sauget	State IL	Zin Code 62206
Signature	x tu	Maria	4	Printed Name	Tee about	
	7			Printed Name	F	hone Number
Title						
		Applicant is a Unit o				
Signature	X			Date(City Clork)	Title √illage Clerk, Sanitar	
				(City Cierk,	vinage Cierk, Sanitar	y District Clerk, EtC.)
		nental applicants which uly authorized represe		y the owner, must be signed by	a principal executive	e officer of at least th
	te By Intermediat					
I hereby o	ertify that (Please c	check one):	•			
X				adequate reserve capacity to to onmental Protection Act or Sub		ater that will be adde
			ities that are the s	dateddatedsubject of this application.	, granted a varia	nce from Subtitle C
	•	ovetom to which this n	raiaat will ba tribu	menican Rott	oms. Sauget	- TI
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This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

WPC-PS-1.APP

FOR IEPA USE: LOG # DATE RECEIVED:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF WATER POLLUTION CONTROL PERMIT SECTION Springfield, Illinois 62706

SCHEDULE J INDUSTRIAL TREATMENT WORKS CONSTRUCTION OR PRETREATMENT WORKS

1.	NAM	<u>IE AND LOCATION</u> :	
	1.1	Name of project GMCS Temporary Discharge Sauget, IL	
	1.2	Plant Location	
		1.2.1 <u>(sections not delineated in this area) l N</u> <u>lØ W</u>	-
		Quarter Section Section Township Range	P.M.
		1.2.2 Latitude 38° 36' 2.05"	"NORTH
		1.2.3 Longitude 90° 11' 6.61"	"WEST
		1.2.3 Name of USGS Quadrangle Map (7.5 or 15 minute) Cahokia, IL - MO	
2.	<u>NARI</u>	RATIVE DESCRIPTION AND SCHEMATIC WASTE FLOW DIAGRAM: (see instructions)	٠
		temporary treatment unit will be used to treat extracted groundwater	
	t	reatment pilot test. See attached GMCS Temporary Treatment And Convey	ance
	S	ystem narrative.	
	2.1	PRINCIPAL PRODUCTS:	· · · · · · · · · · · · · · · · · · ·
		Carbon filtered groundwater	
	2.2	PRINCIPAL RAW MATERIALS: Groundwater	
3.	DESC	CRIPTION OF TREATMENT FACILITIES:	
	3.1	Submita flow diagram through all treatment units showing size, volumes, detention times, organic loadings	, surface settling
		rate, weir overflow rate, and other pertinent design data. Include hydraulic profiles and description of mor	nitoring systems
	3.2	Waste Treatment Works is: Batch, Continuous X, No. of Batches/day, No. of Shifts/day	ay
	3.3	Submit plans and specifications for proposed construction.	
	3.4	Discharge is: Existing ; Will begin on March 2003 (estimate)	
4.	DIRE	CT DISCHARGE IS TO: Receiving Stream Municipal Sanitary Sewer X	Municipal
	storm	or municipal combined sewer If receiving stream or storm sewer are indicated complete	ete the following
	Name	e of receiving stream; tributary to	;
	tributa	ary to; tributary to;	
5.	Is the	$treatment\ works\ subject\ to\ flooding?\ If\ so,\ what\ is\ the\ maximum\ flood\ elevation\ of\ record\ (in\ reference\ to\ the\ property)$	treatment works
		n) and what provisions have been made to eliminate the flooding hazard? Approximately ten fee	
	Trea	atment works are mobile and will be removed from site in the event of	flooding.
6.	<u>APPR</u>	OXIMATE TIME SCHEDULE: Estimated construction schedule:	
		of Construction February 2003 (est.); Date of Completion March 2003 (est.)	
		ation Schedule Mar. 2003-Mar. 2004 (est Date Operation Begins March 2003 (est.)	
	100%	design load to be reached by year 2003	
' .	DESIC	<u>GN LOADINGS</u>	-
	7.1	Design population equivalent (one population equivalent is 100 gallons of wastewater per day, containing	g 0.17 pounds of
		BOD₅ and 0.20 pounds of suspended solids;	
	BOD_		
	7.2	Design Average Flow Rate 0.43	MGD.

This Agency is authorized to require this information under IllinoisRevised Statutes, 1979, Chapter 111 1/2, Section 1039, Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

7.3	Desig	ign Maximum Flow Rate0.43			MGD.
	7.4	Design Minimum Flow Rate			MGD.
	7.5	Minimum 7-day, 10-year low flow 0.0 cfs	0.0	MGD.	
		Minimum 7-day, 10-year flow obtained from N/A dischar	ge to POTW		
	7.6	Dilution Ratio 1 ; 1 .			
8.	FLOW	W TO TREATMENT WORKS (if existing):			
	8.1	Flow (last 12 months)		X 2	•
		8.1.1 Average Flow N/A MGD			
		8.1.2 Maximum Flow N/A MGD			
	8.2	Equipment used in determining above flowsN/A	- 	·	
9.	Has a	a preliminary engineering report for this project been submitted to the	nis Agency for App	proval?	
	Yes _	No X If so, when was it submitted and approved. Date Sul			
		Certificat	ion #		
		_	·		
10.	List Pe	Permits previously issued for the facility: IEPA previous pe	rmits: 1992	2-EN-0503	
11.	Descr	cribe provisions for operation during contingencies such as po-	wer failures, floc	ding, peak loads, equ	uipment failure,
	mainte	itenance shut downs and other emergencies.			
	The	temporary treatment unit is mobile and can	be demobili:	zed from the si	te in the
	even	nt of flooding. Groundwater extraction woul	d be suspend	led in the event	t of flooding
	-	er failures, equipment failure, peak loads,			
		rgencies. See attached GMCS Temporary Treat		iveyance System	narrative.
		plete and submit Schedule G if sludge disposal will be required by t	his facility.		
		TE CHARACTERISTICS: Schedule N must be submitted.			
14.	TREAT	ATMENT WORKS OPERATOR CERTIFICATION: List names and ce	rtification number	s of certified operators:	:
					_
					
					_
-					4

SCHEDJ.APP

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that section. Failure to do so may prevent this form from being processed and could result in your application being denied.

1. Name of Project __GMCS Temporary Conveyance Discharge

For IEPA Use:
LOG#
DATE RECEIVED:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF WATER POLLUTION CONTROL PERMIT SECTION Springfield, Illinois 62794-9276

SCHEDULE N WASTE CHARACTERISTICS

2.	FLOW DATA	EXISTING PROPOSED-DESIGN			1		
	2.1 Average Flow (gpd)	none		4.	900 (200+gpm	1)	ŕ
	2.2 Maximum Daily Flow (gp	d) <u>none</u>		<u>7,</u>	,200 (300 gpm	1)	
	2.3 <u>TEMPERATURE</u>						
	Time of <u>Year</u>	Avg. Intake Temp. F	Avg. Effluent Temp. F			Effluent	Max. Temp. Outside Mixing Zone F
	SUMMER	58	65	65	57	0	N/A
	WINTER	50	55	55	i 7	0	N/A_
3.	 2.4 Minimum 7-day, 10-year f 2.5 Dilution Ratio: 1 2.6 Stream flow rate at time of 	i I of sampling N/A xisting Permitted Co	cfs cfs; E	Existing condite (Number	ditions; Propo of samples per day	y)	
	(see instructions for analyses	required)			(Estimated w	ater qu	ality)
	CONSTITUENT	RAW WASTE (mg/l)	TREATED EI Avg. (mg/l		UPSTREAM (mg/l)	DOWNS.	TRÊAM SAMPLES (mg/l)
,	Ammonia Nitrogen (as N)	- 6	15				
	Arsenic (total)	< 0.01	< 0.01				
	Barium	0.3	√ 4 0.3				
	Boron	1.5	< 1.5				
	BOD₅	165	30		·		,
	Cadmium	< 0.01	∢ 0.01				
	Carbon Chloroform Extract	-					
	Chloride	< 300	< 500	•			
	Chromium (total hexavalent)	∢ 0.05	< 0.05	·			
	Chromium (total tribalent)	d 0 01	٠ 0 01				

Copper	< 0.01	< 0.01		·
Cyanide (total)	< 0.1	< 0.1		
CONSTITUENT	RAW WASTE (mg/l)	TREATED EFFLUENT Avg. (mg/l) Max.	UPSTREAM (mg/l)	DOWNSTREAM SAMPLES (mg/l)
Cyanide (readily released @ 150• F & pH 4.5)	< 0.015	∢ 0.015		
Dissolved Oxygen	< 1	2		
Fecal Coliform	< 1	> 100		
Fluoride	< 0.2	< 0.2		
Hardness (as Ca CO ₃)	< 1100	< 1100		
Iron (total)	20	20		
Lead	< 0.06	< 0.06		·
Manganese	6	∢ 6		
MBAS	26	< 26		
Mercury	< 0.001	< 0.001		
Nickel	0.03	< 0.03		
Nitrates (as N)	< 0.05	15	•	~
Oil & Grease (hexane solubles or equivalent)	2.5	< 2.5		
Organic Nitrogen (as N)	24	< 24		
рН	5–9	6-8		
Phenois	50	< 0.1		
Phosphorous (as P)	0.13	< 1		,
Radioactivity		-		
Selenium	< 0.02	€ 0.02		
Silver	0.005	< 0.005		
Sulfate	160	∢ 300		
Suspended Solids	12	< 200		
Total Dissolved Solids	1200	∢ 1500		
Zinc	0.05	< 0.5		
Others	600	4 350		
				-
	1	·		

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